Attorney Docket No. 31132.165 /PC869.02 Customer No. 46333

Listing Of The Claims

The following list of the claims replaces all prior versions and lists of the claims in this application.

- 1. (Currently Amended) A bone preparation device, comprising:
 - a guide body;
- a bone removal device having a longitudinal axis extending between a proximal portion and a distal portion;
- a pair of guide members movably engaged between said guide body and said bone removal device, said guide members substantially aligned along an alignment axis substantially parallel to the longitudinal axis of the bone removal device, wherein neither the alignment axis and nor the longitudinal axis are non-intersecting extend over the other; and

an alignment device movably engaged between said guide members,

wherein said bone removal device may be movably guided by said guide members and said alignment device with respect to said guide body through a predetermined pattern.

- 2. (Original) The bone preparation device of claim 1, wherein said guide members are rotatably connected to said bone removal device.
- 3. (Original) The bone preparation device of claim 2, wherein said guide members are pivotally connected to said bone removal device.
- 4. (Original) The bone preparation device of claim 1, wherein said predetermined pattern is circular.
- 5. (Original) The bone preparation device of claim 4, wherein said bone removal device forms a generally toroidal shape in the bone.

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6. (Original) The bone preparation device of claim 1, wherein each of said guide members has a major side surface substantially parallel to said longitudinal axis and each of said guide members

is joined to said major side surface.

7. (Original) The bone preparation device of claim 6, wherein said predetermined pattern is

defined in a plane substantially parallel to said longitudinal axis.

8. (Original) The bone preparation device of claim 1, wherein each of said guide members is

rotationally connected to said guide body and rotationally connected to said bone removal

device.

9. (Original) The bone preparation device of claim 1, wherein said guide body is a cage at least

partially encircling said bone removal device.

10. (Original) The bone preparation device of claim 9, wherein said body has an inner surface,

said inner surface having at least one track, said guide members following said at least one track

to control said bone removal device to form said predetermined pattern.

11. (Original) The bone preparation device of claim 10, wherein said guide members are

pivotally connected to said bone removal device.

12. (Original) The bone preparation device of claim 1, wherein each of said guide members

includes a first projection pivotally engaged to said bone removal device.

13. (Original) The bone preparation device of claim 12, wherein each of said guide members

includes a second projection in substantial opposition to said first projection, said second

projection pivotally engaged with said guide body.

14. (Original) The bone preparation device of claim 1, wherein said bone removal device

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includes a bone removal element disposed adjacent said distal end, said bone removal element having an axis of rotation, said axis of rotation offset with respect to said longitudinal axis.

15. (Original) The bone preparation device of claim 14, wherein said axis of rotation is

substantially transverse to said longitudinal axis.

16. (Original) The bone preparation device of claim 1, wherein said bone removal device is

coupled to a power source adjacent said proximal end.

17. (Original) The bone preparation device of claim 1, wherein said guide members are

configured to simultaneously control axial displacement of said bone removal device with

respect to said guide body and movement transverse to said longitudinal axis to generate a

substantially non-linear predetermined pattern.

18. (Original) The bone preparation device of claim 1, wherein said alignment device controls

the speed and direction of said guide members.

19. (Original) The bone preparation device of claim 1, wherein said alignment device comprises

a gear.

20. (Original) The bone preparation device of claim 1, wherein said alignment device comprises

a connecting rod.

21. (Withdrawn) The bone preparation device of claim 1, wherein said alignment device

comprises a band connected between a pair of pulleys, wherein each pulley is connected to a

respective guide member.

22. (Withdrawn) The bone preparation device of claim 1, wherein said alignment device is

adapted to move each guide member at approximately the same speed.

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- 23. (Original) The bone preparation device of claim 1, wherein said alignment device is adapted to move each guide member in approximately the same direction
- 24. (Original) The bone preparation device of claim 1, wherein said alignment device is positioned within said guide body.
- 25. (Withdrawn) A method of bone preparation, the method comprising:

moving a bone removal device at least partially housed within a guide body, wherein a pair of guide members are movably engaged between the guide body and the bone removal device and rotate with the movement of the bone removal device;

guiding the movement of the bone removal device through a predetermined pattern; aligning the rotation of the guide members with an alignment device movably engaged between the guide members.

- 26. (Withdrawn) The bone preparation method of claim 25 wherein the alignment device comprises a gear.
- 27. (Withdrawn) The bone preparation method of claim 25 wherein the alignment device comprises a connecting rod.
- 28. (Withdrawn) The bone preparation method of claim 25 wherein the alignment device comprises a band connected between a pair of pulleys, wherein each pulley is connected to a respective guide member.
- 29. (Withdrawn) The bone preparation method of claim 25 wherein the alignment device is adapted to move each guide member at approximately the same speed.
- 30. (Withdrawn) The bone preparation method of claim 25 wherein the alignment device is

adapted to move each guide member in approximately the same direction.

31. (Cancelled)

- 32. (Currently Amended) The vertebral body bone preparation device of claim 31 37, wherein said alignment device controls the speed and direction of said guide members.
- 33. (Currently Amended) The vertebral body bone preparation device of claim 31 37, wherein said alignment device comprises a gear.
- 34. (Withdrawn) The vertebral body preparation device of claim 31, wherein said alignment device comprises a connecting rod.
- 35. (Withdrawn) The vertebral body preparation device of claim 31, wherein said alignment device comprises a band connected between a pair of pulleys, wherein each pulley is connected to a respective guide member.
- 36. (Cancelled)
- 37. (Previously Presented) A bone preparation device comprising;
 - a guide body;
- a bone removal device comprising a longitudinal axis extending between a proximal end and a distal end;
- a first guide system movably connected between the bone removal device and the guide body, the first guide system comprising a first intermediate body, a first pin extending between the bone removal device and the first intermediate body, and a second pin extending between the first intermediate body and the guide body, wherein the first and second pins are maintained in parallel alignment;
 - a second guide system movably connected between the bone removal device and the

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guide body, the second guide member comprising a second intermediate body, a third pin extending between the bone removal device and the second intermediate body, and a fourth pin extending between the second intermediate body and the guide body, wherein the third and fourth pins are maintained in parallel alignment; and

an alignment device movably engaged between the first and second guide systems, wherein the first pin is movably guided in an at least partially orbital path about a central axis extending axially through the second pin and through the guide body.

- 38. (Previously Presented) The bone preparation device of claim 37 wherein the first pin and the third pin are rotatably connected to the bone removal device.
- 39. (Previously Presented) The bone preparation device of claim 37 wherein the second pin and the fourth pin are rotatably connected to the guide body.